Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-14. (Canceled)

15. (Previously presented) An exhaust gas aftertreatment device for a motor vehicle, said device comprising:

a reforming unit that generates hydrogen by at least one of steam reforming and partial oxidation of hydrocarbons, said reforming unit being arranged directly, in a full flow of exhaust gas, in a main exhaust gas stream of an internal combustion engine, whereby steam and residual oxygen that are necessary for reforming are derived from said exhaust gas;

an NO_X storage catalytic converter arranged in the main exhaust gas stream downstream of the reforming unit said NO_X storage catalytic converter being operable to remove NO_X from lean exhaust gas by storing NO_X as the lean exhaust gas flows through NO_X storage catalytic converter, and to generate N_2 by reducing stored NO_X when reducing exhaust gas flows through the NO_X storage catalytic converter;

an SCR catalytic converter arranged in the main exhaust gas stream downstream of the NO_X storage catalytic converter said SCR catalytic converter being operable to reduce NO_X contained in the exhaust gas using NH₃ that has been generated by the NO_X storage catalytic converter, and

an exhaust gas recirculation arranged downstream of the reforming unit.

- 16. (Previously presented) The exhaust gas aftertreatment device as claimed in claim 15, further comprising an oxidation catalytic converter that is arranged downstream of the SCR catalytic converter.
- 17. (Previously presented) The exhaust gas aftertreatment device as claimed in claim 16, further comprising a three-way catalytic converter that is arranged immediately downstream of the reforming unit.
- 18. (Previously presented) The exhaust gas aftertreatment device as claimed in claim 15, further comprising a three-way catalytic converter that is arranged immediately downstream of the reforming unit.
- 19. (Previously presented) The exhaust gas aftertreatment device as claimed in claim 15, wherein the reforming unit comprises a catalytically active particulate filter.

Claims 20. - 24. Cancelled

25. (Withdrawn-Previously presented) An exhaust gas aftertreatment device for a motor vehicle, said device comprising:

a reforming unit that generates hydrogen by at least one of steam reforming and partial oxidation of hydrocarbons, said reforming unit being arranged directly, in a full flow of exhaust gas, in a main exhaust gas stream of an internal combustion engine, whereby steam and residual oxygen that are necessary for reforming are derived from exhaust gas;

an exhaust gas catalytic converter, arranged in the main exhaust gas stream downstream of the reforming unit, said exhaust gas catalytic converter being operable to perform the functions of an NO_X storage catalytic converter and an SCR catalytic converter, and

an exhaust gas recirculation arranged downstream of the reforming unit.

- 26. (Withdrawn) The exhaust gas aftertreatment device as claimed in claim 25, further comprising an oxidation catalytic converter arranged downstream of the exhaust gas catalytic converter.
- 27. (Withdrawn) The exhaust gas aftertreatment device as claimed in claim 26, further comprising a three-way catalytic converter is arranged immediately downstream of the reforming unit.
- 28. (Withdrawn) The exhaust gas aftertreatment device as claimed in claim 25, further comprising a three-way catalytic converter is arranged immediately downstream of the reforming unit.
- 29. (Withdrawn) The exhaust gas aftertreatment device as claimed in claim 25, wherein the reforming unit is designed as a catalytically active particulate filter.
- 30. (Withdrawn-Previously presented) An exhaust gas aftertreatment device for a motor vehicle, said device comprising a reforming unit that generates hydrogen by at least one of steam reforming and partial oxidation of hydrocarbons, wherein:

the reforming unit is arranged directly, in a full flow of the exhaust gas in a main exhaust gas stream of an internal combustion engine;

steam and residual oxygen that are necessary for reforming are derived from exhaust gas;

a DENOX catalytic converter arranged in the main exhaust gas stream downstream of the reforming unit, and

an exhaust gas recirculation arranged downstream of the reforming unit.

- 31. (Withdrawn) The exhaust gas aftertreatment device as claimed in claim 30, wherein the reforming unit comprises a catalytically active particulate filter.
- 32. (Previously presented) A method for operating an exhaust gas aftertreatment device, the method comprising:

using hydrogen to reduce NO_X in exhaust gas from an internal combustion engine of a motor vehicle by way of a catalytic converter;

generating the hydrogen onboard the motor vehicle by at least one of steam reforming and partial oxidation of hydrocarbons; wherein

steam and residual oxygen that are necessary for the reforming are supplied from the exhaust gas;

the reforming is performed by a reforming unit arranged directly in full flow of exhaust gas, in a main exhaust gas stream from the internal combustion engine; and

supplying reformate to the engine, by way of an exhaust gas recirculation operably arranged downstream of the reforming unit.

- 33. (Previously presented) The method as claimed in claim 32, further comprising setting the temperature of the reforming unit by an air/fuel ratio and determining oxygen concentration in the exhaust gas using a wide-band lambda sensor.
- 34. (Previously presented) The method as claimed in claim 33, further comprising operating the reforming unit at an air/fuel ratio in the range from approximately $0.5 < \lambda < 1.0$.
- 35. (Previously presented) The method as claimed in claim 34, further comprising setting a quantity of fuel which is fed to the reforming unit via at

least one of i) inside the engine, and ii) a secondary injection into the exhaust gas stream upstream of the reforming unit.

- 36. (Previously presented) The method as claimed in claim 33, further comprising setting a quantity of fuel which is fed to the reforming unit via at least one of i) inside the engine, and ii) a secondary injection into the exhaust gas stream upstream of the reforming unit.
- 37. (Previously presented) The method as claimed in claim 32, further comprising setting a quantity of fuel which is fed to the reforming unit via at least one of i) inside the engine, and ii) a secondary injection into the exhaust gas stream upstream of the reforming unit.
- 38. (Previously presented) The exhaust gas aftertreatment device of claim 15 further comprising a catalytic converter arranged closed to the engine.
- 39. (Previously presented) The exhaust gas aftertreatment device of claim 15 wherein the NOx storage catalytic converter is configured to generate NH₃ by reduction of accumulated NOx with H₂.
- 40. (Previously presented) The exhaust gas aftertreatment device of claim 15 wherein the reforming unit is the reforming unit as being configured as an autothermal reforming reactor.
- 41. (Previously presented) The exhaust gas aftertreatment device of claim 15 further comprising a secondary injection device arranged upstream of the reforming unit being operable for post-engine introduction of reducing agents into the exhaust gas upstream of the reformer.